

IN THE CLAIMS

1. (currently amended) A method for supplying power, said method comprising:

supplying power to at least one critical device;

supplying power to at least one essential device;

remotely removing power to the at least one essential device while maintaining power to the at least one critical device, wherein said remotely removing power comprises remotely discontinuing power on receiving an instruction via the Ethernet to remotely remove ~~power~~; and power;

storing power supplied by at least one of a generator and a utility power source in an energy storage system when a supply of power to the at least one essential device is ~~discontinued~~; discontinued; and

resuming supply of power to the at least one essential device upon determining that power supplied by the generator and an uninterrupted power supply is returned to a level.

2. (previously presented) A method in accordance with Claim 1 wherein remotely removing power comprises remotely removing power to the at least one essential device while maintaining power to the at least one critical device based on remotely monitoring the supplied power to the at least one critical device and the supplied power to the at least one essential device.

3. (previously presented) A method in accordance with Claim 2 further comprising:

capturing a waveform for the power supplied to the at least one critical device;

and

capturing a waveform for the power supplied to the at least one essential device.

4. (previously presented) A method for supplying power, said method comprising:

supplying power to at least one critical device;

supplying power to at least one essential device;

remotely removing power to the at least one essential device while maintaining power to the at least one critical device, wherein said remotely removing power comprises remotely discontinuing power on receiving an instruction via the Ethernet to remotely remove power and comprises remotely removing power to the at least one essential device while maintaining power to the at least one critical device based on remotely monitoring the supplied power to the at least one critical device and the supplied power to the at least one essential device;

storing power in a storage device when a supply of power to the at least one essential device is discontinued;

capturing a waveform for the power supplied to the at least one critical device;

capturing a waveform for the power supplied to the at least one essential device;

logging data relating to the power supplied to the at least one critical device;

logging data relating to the power supplied to the at least one essential device;
and

trending the data relating to the power supplied to the at least one critical device, the data relating to the power supplied to the at least one essential device, and the captured waveforms to determine when to remove power from the at least one essential device.

5. (canceled)

6. (previously presented) A method in accordance with Claim 1 wherein said storing power comprises storing power with a flywheel energy storage system when a supply of power to the at least one essential device is discontinued.

7. (currently amended) An energy management system comprising:

a generation module including at least one of a utility power source and a generating power source;

a first set of at least one power distribution unit remote from said generation module and communicatively coupled to said generation module, wherein at least one of said at least one power distribution unit in the first set is connected to at least one essential device;

a master control system remote from said generation module and said at least one power distribution unit in the first set, said master control system communicatively coupled to said generation module and said at least one power distribution unit in the first set; ~~and~~ set;

an energy storage system configured to store power supplied by at least one of said utility power source and said generating power source when said at least one power distribution unit in the first set discontinues supplying power to the at least one essential ~~device~~. device; and

a programmable logic controller configured to direct said at least one power distribution unit in the first set to resume supply of power to the at least one essential device upon determining that power supplied by said generation module is returned to a level.

8. (previously presented) A system in accordance with Claim 7 wherein said generation module comprises at least two power sources, said master control system configured to remotely monitor and diagnose said at least two power sources.

9. (previously presented) A system in accordance with Claim 7 wherein said system further comprises a second set of at least two power distribution units remote from said generation module and communicatively coupled to said generation

module, at least one of said at least two power distribution units within the second set connected to at least one critical device, said master control system configured to remotely monitor said generation module and instruct said at least one power distribution unit in the first set connected to the at least one essential device to stop supplying power to the at least one essential device.

10. (original) A system in accordance with Claim 7 further comprising a conditioning module communicatively coupled to said generation module and said master control system, said master control system configured to remotely condition power from said generation module.

11. (previously presented) A system in accordance with Claim 10 wherein said generation module comprises at least two power sources, said master control system configured to remotely manage which of the at least two power sources provides power.

12. (previously presented) A system in accordance with Claim 11 wherein said at least two power sources comprises said utility power source and said generating power source.

13. (original) A system in accordance with Claim 11 further comprising a flywheel energy storage system coupled to at least one of said at least two power sources.

14. (original) A system in accordance with Claim 7 further comprising a flywheel energy storage system coupled to said generation module.

15. (previously presented) A system in accordance with Claim 9 wherein said generation module comprises at least two power sources, said master control system configured to remotely manage which of the at least two power sources provides power to said at least one power distribution unit within the first set and said at least two power distribution units within the second set.

16. (previously presented) A system in accordance with Claim 15 wherein said at least two power sources comprises said utility power source and said generating power source.

17. (original) A system in accordance with Claim 16 further comprising a flywheel energy storage system coupled to at least one of said at least two power sources.

18. (original) A system in accordance with Claim 16 further comprising an uninterrupted power supply.

19. (currently amended) An energy management system comprising:

a generation module comprising at least two power sources comprising a generator and a utility power source;

at least two power distribution units remote from said generation module and communicatively coupled to said generation module, at least one of said power distribution units connected to at least one critical device, remaining of said power distribution units connected to at least one essential device;

a master control system remote from said generation module and said power distribution units, said master control system communicatively coupled to said generation module and said power distribution units, said master control system configured to remotely monitor said generation module and instruct the remaining of said power distribution units connected to the at least one essential device to stop supplying power to the at least one essential ~~device~~; and device;

an energy storage system configured to store power supplied by at least one of said generator and said utility power source when the remaining of said power distribution units connected to the at least one essential device is not supplying power to the at least one essential ~~device~~; device; and

a programmable logic controller configured to direct at least one of the remaining of said power distribution units to resume supply of power to the at least one essential device upon determining that power supplied by said generating module is returned to a level.

20. (original) A system in accordance with Claim 19 wherein said master control system configured to remotely monitor said generation module using a plurality of programmable logic controllers (PLC's).